Application No.: 10/584,288 Docket No.: 17214/013001

## AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

- (Currently Amended) A steel manufacturing dust, which is a solid iron product formed by
  pressing and forming reforming a dust dusts occurring in exhaust gases within a melting
  furnace during an iron and steel manufacturing process and subsequently collected by a dust
  collector, and containing iron as a principal component, wherein the solid product contains
  neither organic nor oxide binder.
- (Currently Amended) The <u>solid iron product steel manufacturing dust</u> as claimed in claim 1, wherein the pressing and forming reforming is caused by a mold.
- (Currently Amended) The solid iron product steel manufacturing dust as claimed in claim 1, wherein the solid dust iron product is a columnar body having a round cross-sectional shape.
- 4. (Currently Amended) The solid iron product steel manufacturing—dust as claimed in claim [[2]] 3, wherein the solid dust-iron product is 50 to 100 mm in diameter and 30 to 80 mm in height.
- 5. (Currently Amended) The <u>solid iron product</u> steel manufacturing dust as claimed in claim 4, wherein the ratio of the height relative to the diameter is within the range of 0.7 to 0.8.
- 6. (Currently Amended) A process of manufacturing steel manufacturing dust, comprising:

<u>subsequently collecting</u> wherein a dust dusts, occurring in exhaust gases within a melting furnace during an iron and steel manufacturing process and subsequently collected by a dust collector, and containing iron as a principal component, is charged;

charging the dusts into and pressed within a mold;

pressing the dusts within the mold to provide a solid iron product; and

reentering the solid iron product into the iron and steel manufacturing process,

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wherein the solid iron product contains neither organic nor oxide binder.

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 (Currently Amended) The process of manufacturing steel manufacturing dust as claimed in claim 6, wherein the mold is in the form of a vertically oriented cylindrical chamber.

- 8. (Currently Amended) The process of manufacturing steel manufacturing-dust as claimed in claim 6, wherein a powder of carbon, aluminum or the like generated during the iron and steel manufacturing process is mixed in the dust as a binder, and is then charged into the mold.
- (Currently Amended) A manufacturing apparatus for a <u>solid iron product that contains neither</u> an organic nor <u>oxide binder</u>, steel manufacturing dust comprising:
  - a mold in the form of a cylindrical chamber;
  - a lid member for closing one end of the mold; and
  - a plunger capable of advancing from an opposite end into the mold to press a dust dusts, occurring in exhaust gases within a melting furnace during an iron and steel manufacturing process and subsequently collected by a dust collector, and containing iron as a principal component, within the mold,
    - wherein the apparatus forms the solid iron product with adding neither the organic nor oxide binder.
- 10. (Currently Amended) The manufacturing apparatus for the <u>solid iron product\_steel</u> manufacturing dust as claimed in claim 9, wherein the mold is oriented vertically and the end at which the lid member of the mold is provided is at a lower side.

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